

## **ABSTRACT**

The invention relates to heparinase III and mutants thereof. Modified forms of heparinase III having reduced enzymatic activity which are useful for a variety of purposes, including sequencing of heparin-like glycosaminoglycans (HLGAGs), removing active heparan sulfate from a solution, inhibition of angiogenesis, etc. have been discovered according to the invention. The invention in other aspects relates to methods of treating cancer and inhibiting tumor cell growth and/or metastasis using heparinase III, or products produced by enzymatic cleavage by heparinase III of HLGAGs.

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